

JPL Informatics Team Monthly Report

July 2009

<http://cancer.jpl.nasa.gov> (informatics center)

<http://edrn.nci.nih.gov/> (ops)

<http://nci-test-ws04-2-v.nci.nih.gov/> (test)

<http://edrn.jpl.nasa.gov/> (beta)



JPL EDRN Informatics Fever Chart

EDRN Informatics Tasks	Schedule					Technical					Task Status
	Apr	May	Jun	July		Apr	May	Jun	July		
Overall											
Technology and Software Development											
<i>Development</i>											
EKE Development											Migrating to Plone 3.
EKE Releases and Upgrades											Deployed to operations at NCI
Biomarker Database Development											Usability improvements to the search boxes and index tables, correcting minor bugs as found
Biomarker Database Releases and Upgrades											RDF export fixes for better support of multiple versions (operations and development) of the public portal. Ongoing bi-weekly releases to support curation efforts
eCAS Development											Organ collaborative groups now tracked and revised look and feel to match BMDB. RDF export fixes to better provide information to public portal. Ongoing bi-weekly releases.
eCAS Releases and Upgrades											Delivery and ongoing bi-weekly releases of eCAS curator interface for development and operations support. Using curator to capture Hanash data.
ERNE Releases and Upgrades											Identifying data quality issues.
<i>Standards</i>											
Ontology Development and CDEs											Coordinating data model and integration with CDE Development
Operations Plan/Process Development											Developing and refining processes and standards for capturing biomarker data across EDRN (Biomarkers, Studies, Publications, Research Data, etc).
Data Engineering & Operations											
<i>Biomarker Data Management</i>											
Content Management for Biomarker DB											Populating Biomarker Database. Communicating with DMCC, NCI and EDRN PIs. Completed Lung - Hanash - CARET Marker Review.
Content Management for eCAS											Updating metadata based on eCAS calls w/Dr. Crammer and Dr. Brenner. Communicating with DMCC, NCI and several PIs.
eSIS Content Management WG											Populating PubMed IDs
System Admin. & System Maintenance											Installed Tomcat WebDAV server on tumor/cancer for data delivery.
<i>Interactions</i>											
Interactions w/outside groups											Interactions with several EDRN Investigators related to eCAS, BMDB and ERNE. Call with Hanash Lab to review CARET Lung marker data. Presented Biomarker Review Process to Presented EDRN Informatics to Dr. Niedner and caTissue members. Participated on calls for Canary Lung Project
Publications/Presentations											
Informatics Planning WG											Conference calls bi-monthly to discuss projects and informatics planning.

Note: Double click on the above table to open the chart in Excel.



Cautionary Items

DETAILED DESCRIPTION: (for items identified as yellow or red)

NONE

EKE Portal

- Accomplishments and Status
 - Migration to Plone 3 concluding
 - Includes automated self-tests
 - Currently: 20,052 LOC, 5,582 test LOC
- Plans and Next Steps
 - Complete migration to Plone 3
 - Release to NCI for feedback and comments

Biomarker Database

- Accomplishments and Status
 - Deployed BMDB 0.8.5 release (07/09)
 - Improve metadata support for more thorough integration with the eCAS and Public Portal systems
 - Made RDF exports compatible with all versions of the EDRN Public Portal (operational and development)
- Plans and Next Steps
 - Integrate the BMDB access control groups with the LDAP access control groups for better consistency and easy updates

eCAS

- Accomplishments and Status
 - Deployed eCAS Browser 0.4.5.1 release (7/09)
 - RDF Updates from BMDB and eCAS
 - Align eCAS dataset metadata with joint DMCC-JPL developed metadata
 - Deployed eCAS Browser 0.4.5 release (7/09)
 - Curate Hanash data
 - Deployed eCAS Browser 0.4.4 release (6/14)
 - UI updates to Organ Sites, PI and Collaborative group data
 - Add Protocol information for MALDI data
- Plans and Next Steps
 - Deployment of eCAS release 0.5.0
 - PubMed data import similar to BMDB
 - Curate data received from Alvin Liu

ERNE

- Accomplishments and Status
 - Continued monitoring of data quality
 - Resolved data quality issues at CDC and Fox Chase
 - Resolved startup issue at UCSD
- Plans and Next Steps
 - Automate QA

Biomarker Data Management (collaboration w/ Dartmouth)

- Accomplishments and Status
 - In collaboration with NCI (Christos Patriotis), worked with Dartmouth on Biomarker Database content management
 - Continue to curate biomarkers providing deep content such as publications, alternate names, etc.
 - Completed Review of Hanash CARET markers biomarker annotations and science data
 - Populating next set of markers for review (PLCO – Crammer and GI – Brenner)
 - Contacted several EDRN Investigators for Biomarker content (Dr. Crammer, Dr. Brenner, DMCC and NCI)
 - Conducted the following ongoing conference calls:
 - Bi-weekly calls to discuss the Biomarker Database curation, system development and process development and evaluation of biomarkers with NCI and the DMCC
 - Bi-weekly calls to discuss eSIS curation, process development and data modeling for eSIS
 - Complete Protocol Records for Biomarker and eCAS content as it is curated

Biomarker Data Management Continued

- Plans and Next Steps
 - Present review process to Breast/GYN and GI Collaborative Groups at September Steering Committee Meeting
 - Continue curating PLCO – Crammer markers for review in September
 - Continue curating GI – Brenner markers for review in September
 - Create Biomarker Review Report and Check Lists to send to PIs for review in September
 - Continue researching and contacting investigators to provide deep content for existing markers (populating sensitivity and specificity, etc.)
 - Continue working with Dartmouth and DMCC to provide specifications on Biomarker Database and Biomarker Data Model
 - Continue updating documentation of biomarker database curation process
 - Continue working with EDRN sites to gather feedback on applicable metadata for eCAS
 - Continue contacting PIs to complete Protocol information
 - Continue all BMDB, eCAS, eSIS and informatics calls.



Publications, Presentations and Outreach

- Publications
- Meetings
 - Genomics
 - University of British Columbia

EDRN Meetings/Interactions

- Informatics Planning Meetings (bi-weekly)
 - Thursdays, 11 AM PT
- ERNE teleconferences (bi-weekly)
 - Wednesdays, 2 PM PT
- Biomarker Curation Teleconference (bi-weekly)
 - Thursdays, 8:30 AM PT
- eSIS Coordination Teleconference (bi-weekly)
 - Tuesdays, 8:30 AM PT
- eCAS Coordination Teleconference (bi-weekly)
 - Tuesdays, 8:30 AM PT
- JPL Informatics Teleconference (weekly)
 - Tuesdays, 10 AM PT
- NYU Informatics Teleconference (weekly)
 - Tuesdays, 8 AM PT

NCI/JPL Items

- Portal: Revamp of entire site including integration of data tab and transition to Plone 3
 - Testing and will release to NCI for feedback (this is expected in July)
- Need to coordinate and continue to establish informatics data sharing policies
 - Recommend some discussion between NCI, JPL and DMCC for specific language on data sharing for the EDRN renewal
- JPL is interested in coordinating face-to-face meetings in 2009
 - Discuss and obtain feedback on Biomarker Database, Review Process and Public Portal (August 2009)
 - EDRN Data Providers and Users Meeting (~August 2009)

Links, etc

- EDRN operational website
<http://edrn.nci.nih.gov/>
- EDRN beta website
<http://edrn.jpl.nasa.gov/>
- NCI test website
<http://nci-test-ws04-2-v.nci.nih.gov/>
- JPL EDRN Informatics Center Website
<http://cancer.jpl.nasa.gov/>
- eCAS Browser
<http://cancer.jpl.nasa.gov/ecas>
- eCAS Curator
<http://cancer.jpl.nasa.gov/ecas-curation/>
- BMDB curation system
<http://cancer.jpl.nasa.gov/bmdb>

Informatics Personnel

- Dan Crichton, PI
- Chris Mattmann, Development Lead
- Heather Kincaid, Operations Lead
- Sean Kelly, Technologist
- Steve Hughes, Information Architect
- Andrew Hart, Developer
- John Tran, Developer
- Thuy Tran, Developer